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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: D. Stamatelakis et al.

Attorney Docket No.: LAMA118471

Application No.: 10/037,031

Group Art Unit: 2664

Filed: January 2, 2002

Title: DISTRIBUTED PRECONFIGURATION OF SPARE CAPACITY IN  
CLOSED PATHS FOR NETWORK RESTORATION



SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Seattle, Washington 98101

April 8, 2002

TO THE COMMISSIONER FOR PATENTS:

Applicants are aware of the information listed in the attached form that may be material to the prosecution of the above-identified patent application.

1.   X   Copies of the listed patents, publications, and other information are enclosed for the Examiner's use.
2.   X   Pursuant to 37 C.F.R. § 1.97(b), this Information Disclosure Statement is being filed within three months of the filing date of the national application (other than a CPA), within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, before the mailing date of a first Office Action on the merits, or before the mailing date of a first Office Action after the filing of an RCE.

Respectfully submitted,

CHRISTENSEN O'CONNOR  
JOHNSON KINDNESS<sup>PLLC</sup>

Kevan L. Morgan  
Registration No. 42,015  
Direct Dial No. 206.695.1712

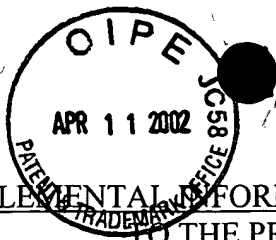
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Date: April 8, 2002

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Monica Conyat

LAW OFFICES OF  
CHRISTENSEN O'CONNOR JOHNSON KINDNESS<sup>PLLC</sup>  
1420 Fifth Avenue  
Suite 2800  
Seattle, Washington 98101  
206.682.8100



SUPPLEMENTAL INFORMATION CITED BY APPLICANTS THAT MAY BE MATERIAL  
TO THE PROSECUTION OF THE SUBJECT APPLICATION

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U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	Document No.	Kind Code	Date (mm/dd/yyyy)	Name
	U12	4,993,015		02/12/1991	Fite, Jr.
	U13	5,065,399		11/12/1991	Hasegawa et al.
	U14	5,093,824		03/03/1992	Coan et al.
	U15	5,218,601		06/08/1993	Chujo et al.
	U16	5,239,537		08/24/1993	Sakauchi
	U17	5,444,693		08/22/1995	Arslan et al.
	U18	5,513,345		04/30/1996	Sato et al.
	U19	5,548,639		08/20/1996	Ogura et al.
	U20	5,604,868		02/18/1997	Komine et al.
	U21	5,812,524		09/22/1998	Moran et al.
	U22	5,884,017		03/16/1999	Fee
	U23	6,044,064		03/28/2000	Brimmage et al.
	U24	6,047,331		04/04/2000	Medard et al.
	U25	6,049,529		04/11/2000	Brimmage et al.
	U26	6,052,796		04/18/2000	Croslin
	U27	6,154,296		11/28/2000	Elahmadi et al.

LAW OFFICES OF  
CHRISTENSEN O'CONNOR JOHNSON KINDNESS<sup>PLLC</sup>  
1420 Fifth Avenue  
Suite 2800  
Seattle, Washington 98101  
206.682.8100

# FOREIGN PATENT DOCUMENTS

*Examiner Initial	Cite No.	Document No.	Kind Code	Publication Date (mm/dd/yyyy)	Country	English Abstract Provided	Translation Provided
_____	F1	GB 2 299 729 ✓	A	10/09/1996	U.K.		
_____	F2	GB 2 305 811 ✓	A	04/16/1997	U.K.		
_____	F3	WO 97/06643 ✓		02/20/1997	WIPO		
_____	F4	WO 97/06644 ✓		02/20/1997	WIPO		
_____	F5	WO 97/06645 ✓		02/20/1997	WIPO		
_____	F6	WO 97/08860 ✓		03/06/1997	WIPO		
_____	F7	WO 97/11543 ✓		03/27/1997	WIPO		

## OTHER INFORMATION

(Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner Initial	Cite No.	
_____	O12 ✓	Baker, J.E., "A Distributed Link Restoration Algorithm With Robust Preplanning," <i>Proc. IEEE GlobeCom '91</i> , December 1991, pp. 10.4.1-10.4.6.
_____	O13 ✓	Chao, C.W., et al., "FASTAR-A Robust System for Fast DS3 Restoration," <i>Proc. IEEE GlobeCom '91</i> , December 1991, pp. 39.1.1-39.1.5.
_____	O14 ✓	Chow, C.E., et al., "Performance Analysis of Fast Distributed Link Restoration Algorithms," <i>International Journal of Communication Systems</i> 8:325-345, 1995.
_____	O15 ✓	Chujo, T., et al., "Distributed Self-Healing Network and Its Optimum Spare-Capacity Assignment Algorithm," <i>Electronics and Communications in Japan</i> , Part 1, 74(7):1-8, 1991.
_____	O16 ✓	Coan, B.A., et al., "A Distributed Protocol to Improve the Survivability of Trunk Networks," <i>Proceedings of the 13th International Switching Symposium</i> 4:173-179, May 1990.
_____	O17 ✓	Coan, B.A., et al., "Using Distributed Topology Update and Preplanned Configurations to Achieve Trunk Network Survivability," <i>IEEE Transactions on Reliability</i> 40(4):404-416, 427, 1991.

LAW OFFICES OF  
CHRISTENSEN O'CONNOR JOHNSON KINDNESS<sup>PLC</sup>  
1420 Fifth Avenue  
Suite 2800  
Seattle, Washington 98101  
206.682.8100

- O18 ✓ Fujii, H., and N. Yoshikai, "Restoration Message Transfer Mechanism and Restoration Characteristics of Double-Search Self-Healing ATM Network," *IEEE J-SAC Special Issue: Integrity of Public Telecommunication Networks* 12(1):149-158 January 1994.
- O19 ✓ Grover, W.D., and D. Stamatelakis, "Self-Organizing Closed Path Configuration of Restoration Capacity in Broadband Mesh Transport Networks," *CCBR '98*, 12 pages.
- O20 ✓ Grover, W.D., and D. Stamatelakis, "Cycle-Oriented Distributed Preconfiguration: Ring-Like Speed With Mesh-Like Capacity for Self-Planning Network Restoration," *ICC '98*, 7 pages.
- O21 ✓ *Introduction to SONET Networking*, Northern Telecom, October 1996, 44 pages.
- O22 ✓ Iraschko, R.R., "Path Restorable Networks," *Ph.D. Dissertation*, University of Alberta, Edmonton, Fall 1996.
- O23 ✓ Iraschko, R.R., et al., "Optimal Capacity Placement for Path Restoration in Mesh Survivable Networks," *Proc. IEEE ICC '96*, June 1996, pp. 1568-1574.
- O24 ✓ Kawamura, R., et al., "Self-Healing ATM Networks Based on Virtual Path Concept," *IEEE J-SAC Special Issue: Integrity of Public Telecommunication Networks* 12(1):120-127, January 1994.
- O25 ✓ Komine, H., et al., "A Distributed Restoration Algorithm for Multiple-Link and Node Failures of Transport Networks," *Proc. IEEE GlobeCom '90*, San Diego, December 1990, pp. 043.4.1-403.4.5.
- O26 ✓ Sakauchi, H., et al., "A Self-Healing Network With an Economical Spare-Channel Assignment," *Proc. IEEE GlobeCom '90*, San Diego, December 1990, pp. 403.1.1-403.1.6.
- O27 ✓ Saniee, I., "Optimal Routing Designs in Self-Healing Communications Networks," Bellcore, Morristown, N.J., May 1994.
- O28 ✓ Stamatelakis, D., "Theory and Algorithms for Preconfiguration of Spare Capacity in Mesh Restorable Networks," *M.Sc. Thesis*, University of Alberta, Edmonton, Spring 1997.
- O29 ✓ Ward, M., "There's an Ant in My Phone . . .," *New Scientist*, January 24, 1998, pp. 32-35.
- O30 ✓ Wu, T.H., *Fiber Network Service Survivability*, Artech House, Boston, 1992, pp. 1-15, 123-210.

O31 ✓ Yang, C.H., and S. Hasagawa, "FITNESS: Failure Immunization Technology for Network Service Survivability," *Proc. IEEE GlobeCom '88*, Hollywood, Fla., November/December 1988, pp. 47.3.1-47.3.5.

Examiner

Date Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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LAW OFFICES OF  
CHRISTENSEN O'CONNOR JOHNSON KINDNESS<sup>PLLC</sup>  
1420 Fifth Avenue  
Suite 2800  
Seattle, Washington 98101  
206.682.8100